

Amendments to the Claims:

The text of all pending claims, (including withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (canceled), (withdrawn), (new), (previously presented), or (not entered).

Applicant reserves the right to pursue any canceled claims at a later date.

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.- 30. (canceled)

31. (currently amended) A gas or steam turbine component suitable for use at temperatures up to 850°C, comprising:

a base component;

a ceramic thermal barrier coating applied to the base component; and

an intermediate protective MC₁Al_X layer arranged beneath the thermal barrier coating, where M is at least one element selected from the group consisting of nickel, cobalt and iron, and X is yttrium or silicon or at least one rare earth element; and

a metallic erosion-resistant layer applied to the thermal barrier coating, the erosion resistant layer having a lower porosity than the thermal barrier coating.[-]

wherein the intermediate protective layer consists of:

11.5 wt% to 20 wt% chromium,

0.3 wt% to 1.5 wt% silicon,

0 wt% to 1 wt% aluminum,

0 to 4 wt% yttrium, and

remainder iron.

32. (previously presented) The component as claimed in claim 31, wherein the erosion-resistant layer is selected from the group consisting of: tungsten carbide, chromium carbide and nickel.

33. (previously presented) The component as claimed in claim 31, wherein the erosion-resistant layer is chromium carbide with an admixture of nickel.

34. (previously presented) The component as claimed in claim 31, wherein the erosion-resistant layer is a mixture of chromium carbide and nickel-chromium.

35. (previously presented) The component as claimed in claim 31, wherein the erosion-resistant layer is nickel-chromium with admixtures of silicon and boron, or nickel-aluminum.

36. (previously presented) The component as claimed in claim 31, wherein the component is a housing component of a gas or steam turbine.

37. (previously presented) The component as claimed in claim 36, wherein the housing component is a turbine housing, a valve housing or a steam inflow region housing component.

38. (previously presented) The component as claimed in claim 31, wherein the component is a turbine blade or vane.

39. (previously presented) The component as claimed in claim 38, wherein the base component is a nickel-base, cobalt-base or iron-base alloy.

40. (previously presented) The component as claimed in claim 39, wherein the thermal barrier coating comprises zirconium oxide (ZrO_2) or titanium oxide (TiO_2).

41. (cancelled)

42. (previously presented) The component as claimed in claim 37, wherein:
the component is exposed to a temperature difference of at least 200°C during operation
produced by a higher temperature on one side of the component and a lower temperature on the
other side, and
the thermal barrier coating is applied to the higher temperature side of the component to control
the thermal deformation of the component.

43. (previously presented) The component as claimed in claim 42, wherein the higher
temperature is between 400°C and 800°C.

44. (cancelled)

45. (currently amended) The component as claimed in claim 3144, wherein the
intermediate protective layer consists of:

12.5 wt% to 14 wt% chromium,
0.5 wt% to 1.0 wt% silicon,
0.1 wt% to 0.5 wt% aluminum
0 to 4 wt% yttrium, and
remainder iron.

46. (previously presented) The component as claimed in claim 31, the erosion-
resistant layer is NiCr80/20 or an iron-base, nickel-base, chromium-base or cobalt-base alloy, or
partially comprises chromium carbide.

47. (currently amended) The component as claimed in claim 3144, wherein:

- the thermal barrier coating is partially porous, or
- the thermal barrier coating has a porosity gradient, or
- the thermal barrier coating porosity is greatest at an outer surface, or
- the thermal barrier coating porosity is lowest in an outer region of the thermal barrier coating, or
- the thickness of the thermal barrier varies, or
- the thermal barrier coating comprises different materials at different locations.

48. (previously presented) The component as claimed in claim 32, wherein:

- the thermal barrier coating is applied in the inflow region and in the blading region of a steam turbine, or
- the thermal barrier coating is applied only in the inflow region of a steam turbine, or
- the thermal barrier coating is applied only in the blading region of a steam turbine, or
- the thermal barrier coating thickness is greater in the inflow region than in the blading region a steam turbine.

49. (canceled)

50. (canceled)